	Application No.	Applicant(s)				
	09/694,416	COLLINS ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Matthew B. Smithers	2137				
Th. 4444 W.O. 0.477						
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in the 35) or other appropriate communing RIGHTS. This application is sub-	nis application. If not included cation will be mailed in due course. <b>THIS</b>				
1. A This communication is responsive to an amendment file	d February 15, 2007.					
2. The allowed claim(s) is/are <u>1-6,9-12,14-23 and 34-66</u> .						
3. ☐ Acknowledgment is made of a claim for foreign priority  a) ☐ All b) ☐ Some* c) ☐ None of the:		<b>(f)</b> .				
Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this national stage application from the						
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:	•					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g	omitted. Note the attached EXAM gives reason(s) why the oath or de	INER'S AMENDMENT or NOTICE OF eclaration is deficient.				
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.						
(a) ☐ including changes required by the Notice of Draftspe	erson's Patent Drawing Review (	PTO-948) attached				
1)  hereto or 2)  to Paper No./Mail Date	·					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in	R 1.84(c)) should be written on the on the financial to 37 CFR 1	drawings in the front (not the back) of I.121(d).				
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)						
1. Notice of References Cited (PTO-892)		mal Patent Application				
2. Notice of Draftperson's Patent Drawing Review (PTO-948		mary (PTO-413), iil Date				
3. Information Disclosure Statements (PTO/SB/08),		nendment/Comment				
Paper No./Mail Date <u>See Continuation Sheet</u> 4.  Examiner's Comment Regarding Requirement for Deposi	t 8. ⊠ Examiner's Sta	atement of Reasons for Allowance				
of Biological Material	9.					

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 10/20/00; 6/26/01; 2/15/07.

90/005,733 90/005,776

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#### **DETAILED ACTION**

### Allowable Subject Matter

Claims 1-6, 9-12, 14-23, and 34-66 are allowed.

The following is an examiner's statement of reasons for allowance: The present invention is directed to a method and system for strengthening the composite portion of the public key while reducing the computational effort for calculating exponentiations for a given composite number. Each of the independent claims identify the uniquely distinct features of "developing k distinct random prime numbers PI, P2 ...., Pk, wherein k is an integer greater than 2; and wherein for a given number of digits for composite numbers in and m, it takes fewer computational cycles to perform the deciphering step if the k distinct random prime numbers are used, relative to the number of computational cycles for performing a deciphering step if the pair of prime numbers p and q is used instead". The closest prior arts, Vanstone et al, and the combination of Itakura with Rivest, disclose conventional methods for computing a composite number "n" from prime numbers, but both fail to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew B. Smithers whose telephone number is (571) 272-3876. The examiner can normally be reached on Monday-Friday (8:00-4:30) EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel L. Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

Art Unit 2137



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
90/005,733	05/18/2000	5848259	C72370US	7105
7	590 02/15/2008		EXAM	INER
	PACKARD COMPA	NY		
P.O. Box 2724			ART UNIT	PAPER NUMBER
Fort Collins, C	CO 80527-2400		<u> </u>	

DATE MAILED: 02/15/2008

Please find below and/or attached an Office communication concerning this application or proceeding.



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
90/005,776	07/28/2000	5848159		6878
7	7590 02/15/2008		EXAM	IINER
HEWLETT-I	PACKARD COMPA	NY		
Intellectual Pro	perty Administration			
P.O. Box 2724	00		ART UNIT	PAPER NUMBER
Fort Collins (	20 90527 2400			

DATE MAILED: 02/15/2008

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